

Abstract of German application G 90 02 100.2 for IDS

Device for blood oxygenation and blood CO<sub>2</sub> elimination having a hollow fiber membrane, wherein a capillary membrane bundle (1) is closed on its ends by paraboloid-formed gas-intake or gas-exit caps (3 or 5) , the capillary membrane bundle being capable of being inserted directly into the intra-corporal blood circulation, whereby the gas-intake cap (3) is connected with a gas-intake valve (7) guided in the capillary membrane bundle, and the gas exit cap (5) is connected with a gas-exit valve (9).